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ated with this firm's name, but probably every accessory which microscopists can wish for.

Special interest attaches to the introduction by them of two new objectives. One is a 1-6-inch of their parachromatic series, which has been made by them on a newly computed formula of their expert, Mr. Conrady. The unique feature of this lens lies in the fact that it possesses a working distance of 1 millimetre. This means that the bacteriologist can üse it on "hanging drop" cultures and employ it freely with his haemacytometer covers and thickly covered objects without any risk whatever of damage. In addition to this, apart from the claims of the makers as to its fine performance, there is the testimony given at the October meeting of the Royal Microscopical Society of London in a paper communicated by Mr. E. M. Nelson, the well-known authority, that "Few lenses, apart from apochromats, have shown as well as this new 1-6 inch, a balsam-mounted *Pleurosigma formosum*—the most severe test to which any dry lens such as this can be subjected"; and further statements to the same effect were given by Dr. E. J. Spitta, the well-known author of "Microscopy," and Dr. Eyre, bacteriologist to Guy's Hospital, London.

The other lens is a 2 mm. of Watson's holoscopic series, which is now made with a guaranteed numerical aperture of 1.37.

Many pages in the 176-page catalogue are devoted to photomicrographic apparatus, and we can heartily commend an examination of this list to microscopists. It will well repay the writing of a request to forward it, which Messrs. Watson inform us they will have much pleasure in complying with, free of charge.

THE MICROSCOPY OF TECHNICAL PRODUCTS

A companion volume to Dr. Winton's Microscopy of Vegetable Foods, and equally, attractive in make-up and contents is the Microscopy of Technical Products, by Dr. T. F. Hanausek, revised by the author and translated by Dr. Winton. Like the former, this volume is published by John Wiley & Sons, of New York City.

Dr. Hanausek is distinguished as an investigator, a teacher, and a technical expert, and his work is distinguished by scientific accuracy, clearness, and utility as a guide in diagnosis. In the revision of the book, previously recognized as authority on the subject, much new matter has been added to the chapters on textile fibres and the number of practical examples largely increased. The number of cuts is also increased.

The volume, as it stands, is an octavo, of XII + 471 pages, with 276 illustrations. It is designed to serve both as a reliable scientific guide to the student entering the field of technical microscopy, and also as an aid to the technical worker in the solution of purely practical problems. The volume is unique in that it teaches the microscopic identification of technical products and at the same time the fundamental principles of vegetable histology and the histology of certain animal materials.

Part I deals with Apparatus and Methods; Part II with the Microscopy of the Most Important Types of Technical Raw Materials. Under the latter head are chapters on starches, in which are discussed the general character, formation, and chemical characters of starch, and the source, methods of preparation, and microscopical characters of the different kinds; and chapters on animal, vegetable, and mineral fibres, including a treatment of the examination of paper and textile fabrics. A chapter on stems and roots includes also a discussion of barks and contains an analytical key for the identification of the most important economic woods, which has been revised to include all the important American woods; 32 pages are devoted to this key and 147 species of woods are included and described. A chapter is devoted to leaves, and, under the head of flowers and parts of flowers, another to insect powders. Still another chapter on fruits and seeds includes a discussion of various oil cakes, and one is devoted to teeth, bone, horn, etc. The book closes with a chapter on micro-chemical analysis.

The volume is generously illustrated, very carefully written, in an unusually lucid style, and cannot help but be of great value to all microscopists who deal especially with technical products, as well as of interest to all workers with the microscope who meet with such material, incidentally, in their more general work.